

Red Hat User Group

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OPENSTACK & CLOUDFORMS





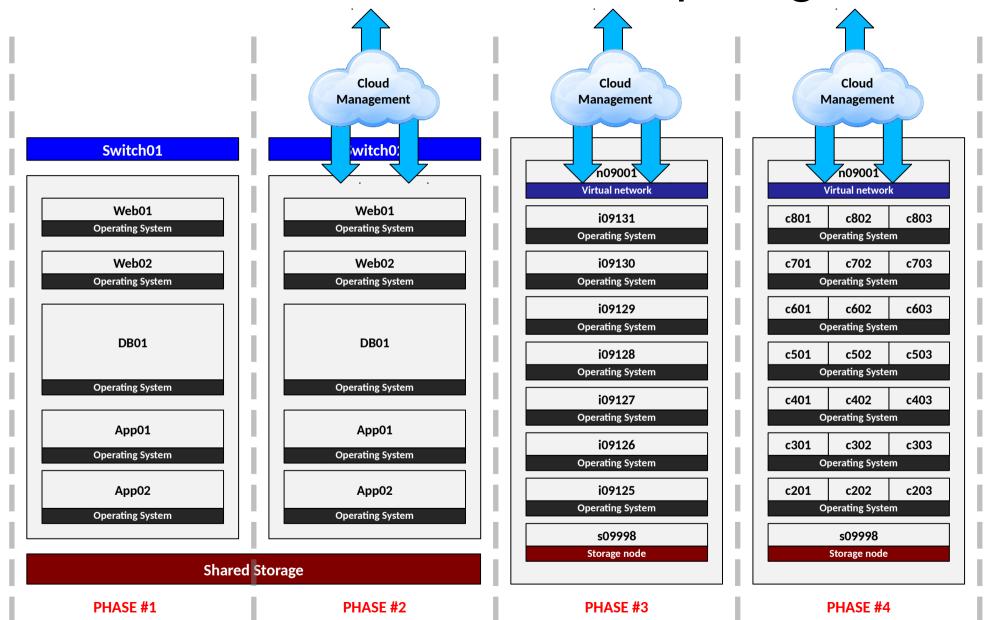
What is cloud computing?



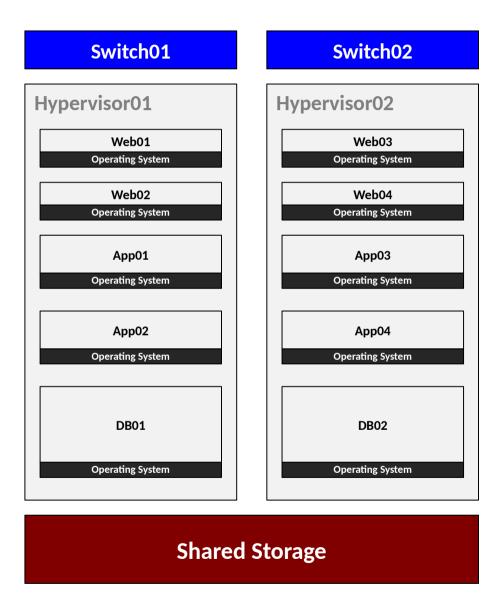




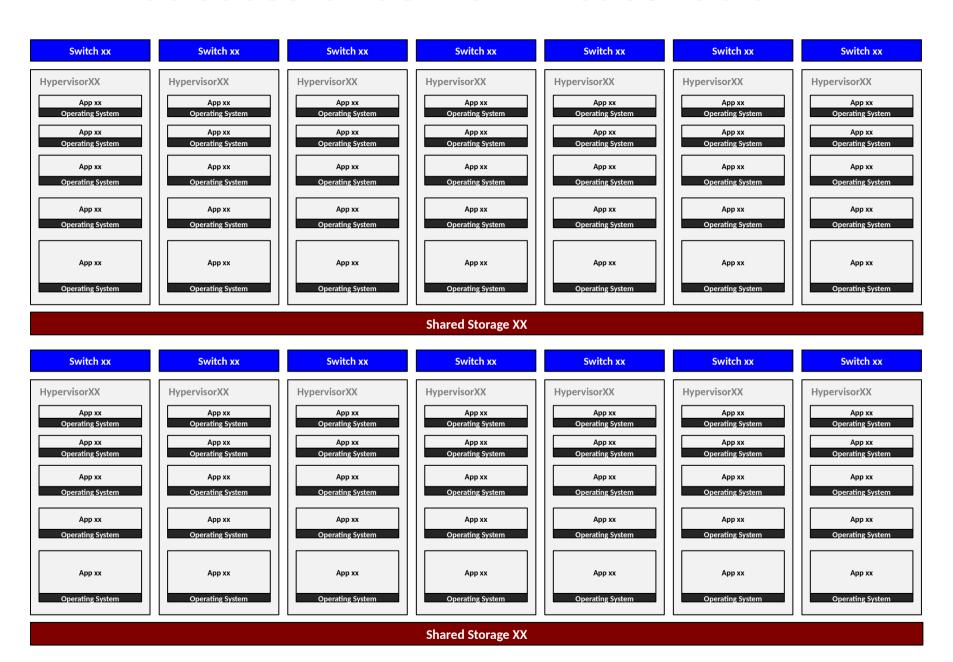
Iterations of Cloud Computing



Phase 1: Compute virtualization



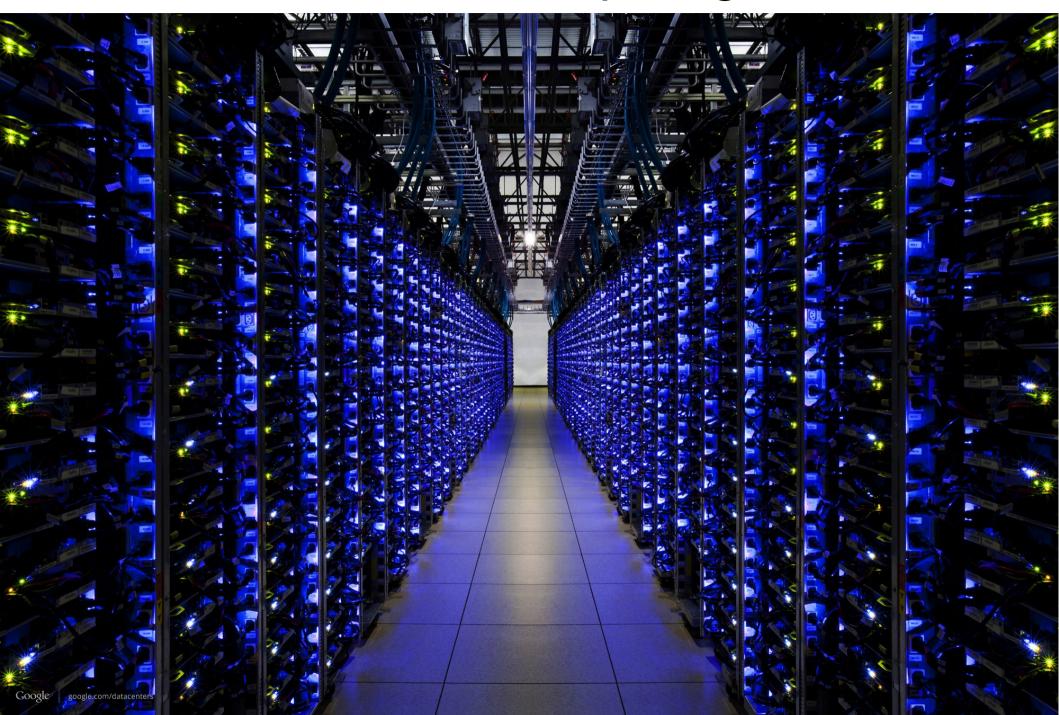
Success of server virtualization



Cloud-in-a-box?

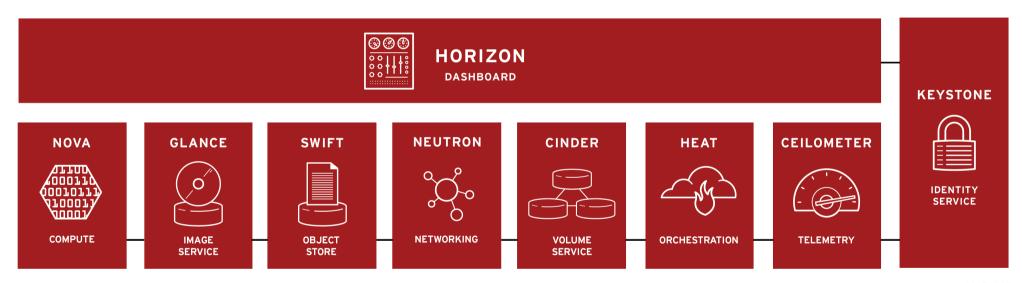


or Cloud Computing?



OPENSTACK CLOUD INFRASTRUCTURE FOR CLOUD WORKLOADS

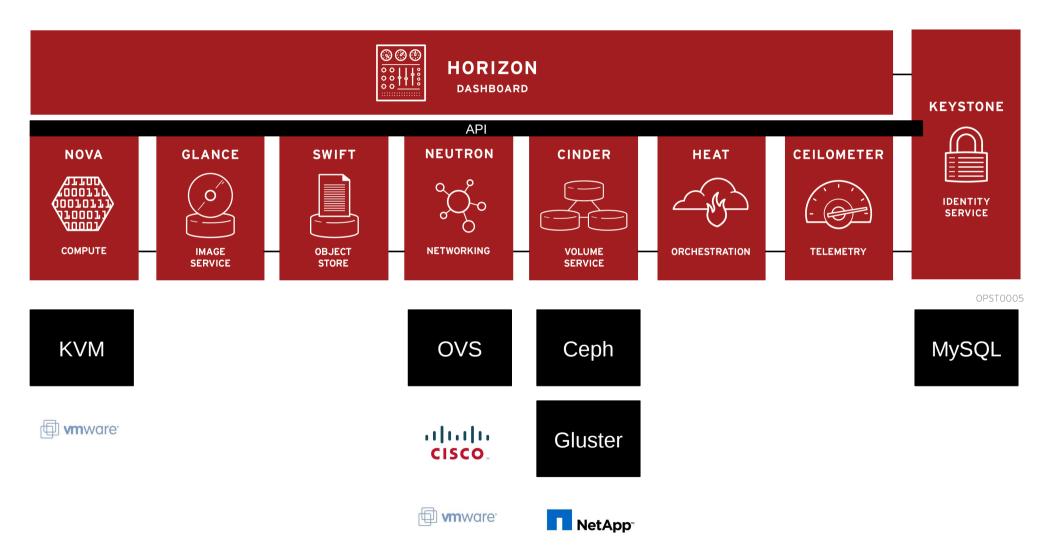
- Modular architecture, designed to easily scale out
- Based on (growing) set of core services



OPST0005

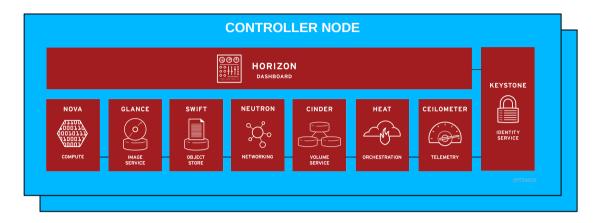
Brokers

Most modules are brokers



Openstack architecture

Hybrid compute and storage nodes

















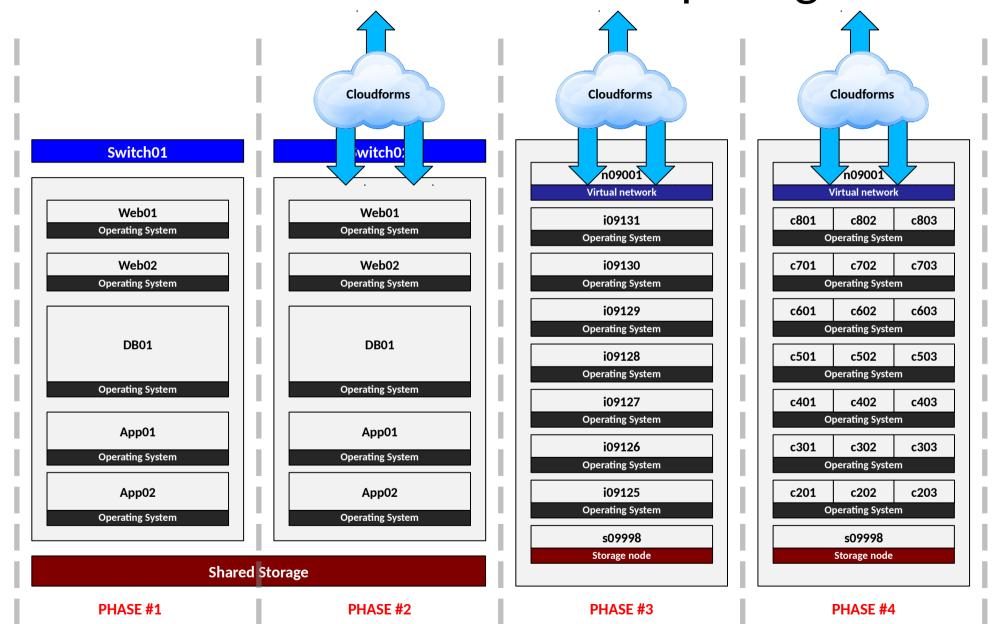
Openstack demo



Red Hat Cloudforms

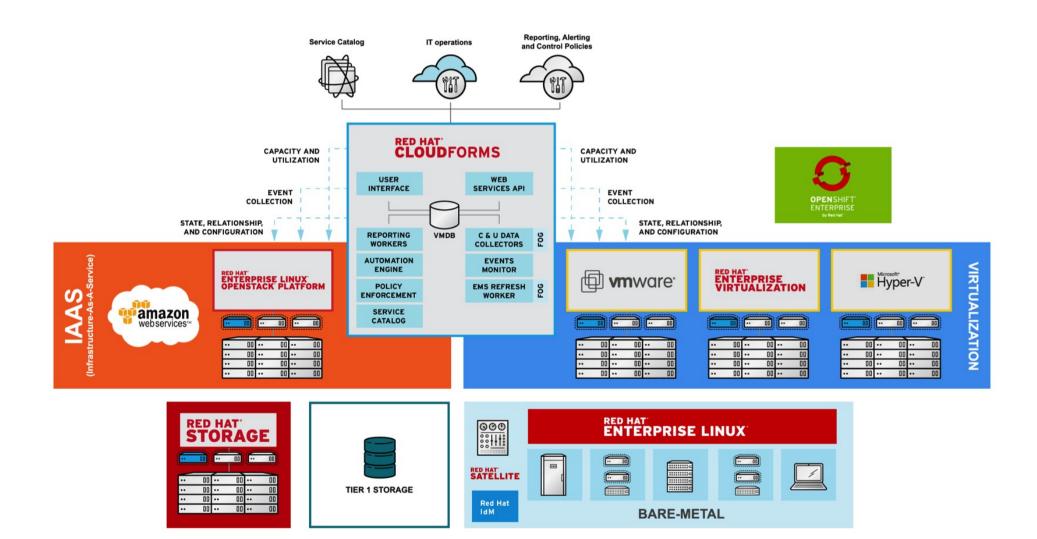


Iterations of Cloud Computing



Open Architecture

Based on Open Source software



What we hear from our customers...

RAPID PROVISIONING

Accelerates time to value

USAGE BASED METERING

Provides financial insight and optimizes resource utilization to help reduce cost

LIFE CYCLE
MANAGEMENT

Keep your environment clean, secure and compliant

SCALABILITY

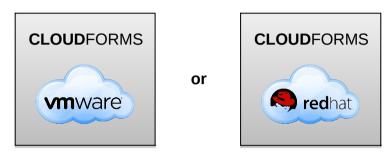
Supports the ability to scale up and down based on my application load



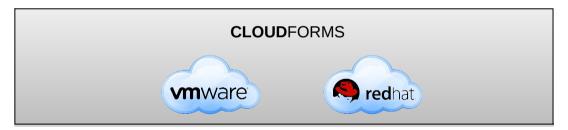
Cloud Operations Management

Usage Scenarios

1. Transform Existing Virtual Platforms into Clouds



2. Migrate to Lower Cost Virtual Platform



3. Build Open Hybrid Cloud



RED HAT CLOUDFORMS Capabilities

INSIGHT

Discovery, Monitoring, Utilization, Performance, Reporting, Analytics, Chargeback, Trending

CONTROL

Security, Compliance, Alerting, Policy-Based Resource and Configuration Enforcement

AUTOMATION

IT Process, Task and Event, Provisioning, Workload Management and Orchestration

INTEGRATION

Systems Management, Tools and Processes, Event Consoles, CMDB, RBA, Web Services



RED HAT CLOUDFORMS

Built for enterprise scale cloud operations management

AGENT-FREE, VIRTUAL APPLIANCE ARCHITECTURE



Rapid deployment, non-invasive (Industry Standard OVF)

WEB-BASED OPERATIONS, ADMIN AND SELF-SERVICE



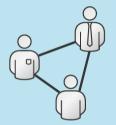
Access anywhere from any browser

ENTERPRISE DIRECTORY SUPPORT



Leverage directory for authentication and role

SUPPORTS MULTI-TENANCY



Securely share infrastructure

HORIZONTALLY SCALABLE



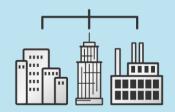
Highly scalable, load balancing

LOAD BALANCING, FAILOVER/BACK



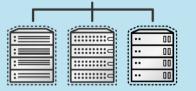
Provides reliability, high availability

MANAGEMENT ACROSS MULTIPLE LOCATIONS



Single pane of glass, unified management

MANAGEMENT ACROSS VIRTUAL PLATFORMS & PUBLIC CLOUDS



Single pane of glass, unified management



cloudforms demo